

Probability



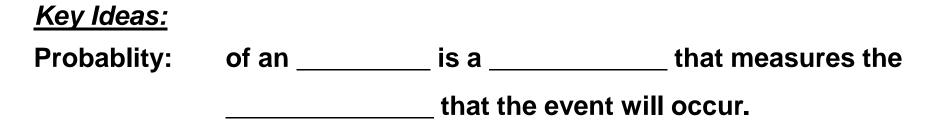
1. Is rolling an even number on a number cube an outcome or an event? Explain.

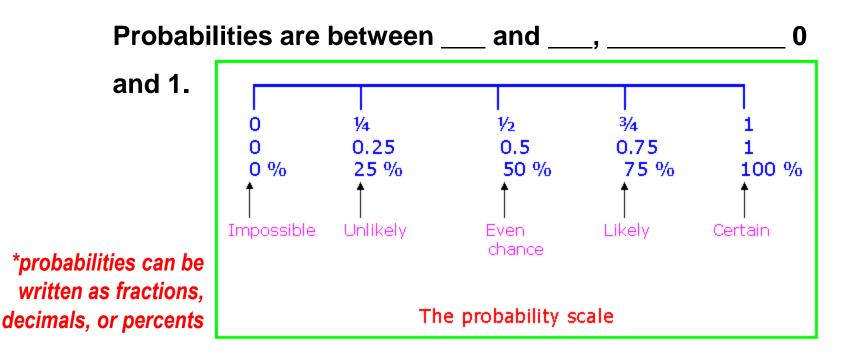


2. Describe how an outcome and a favorable outcome are different.

Learning Target:

- I can understand the concept of probability and the relationship between probability and likelihood.
- I can find probabilities of events.





Describing the Likelihood of an Event



There is an 80% chance of thunderstorms tomorrow. Describe the likelihood of the event.

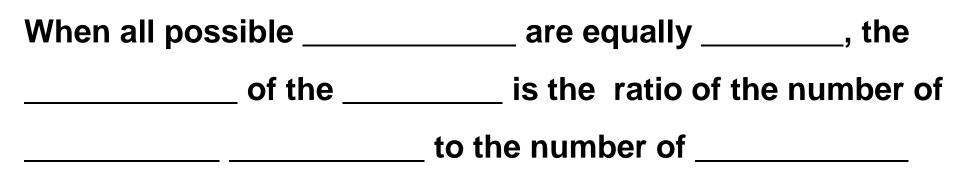
Practice:

Describe the likelihood of the event given its probability.

1) The likelihood that you land a jump on a snowboard is $\frac{1}{2}$.

2) There is a 100% chance that the temperature will be less than 120°F tomorrow.

Finding the Probablity of An Event



the probability of an event is written as P(event).

P(event) = <u>number of favorable outcomes</u> number of possible outcomes



Practice:

- 3) What is the probability of rolling a number greater than 2?
- 4) What is the probability of rolling a 7?

<u>Using ProbablitY</u>

The probability that you randomly draw a short straw from a group of 40 straws is $\frac{3}{20}$. How many are short straws?

A 4
B 6
C 15
D 34



Practice:

5) The probability that you randomly draw a short straw from a group of 75 straws is _____. How many are short straws?